

Title (en)
REFRIGERATION CYCLE EQUIPMENT

Title (de)
KÜHLZYKLUSAUSRÜSTUNG

Title (fr)
ÉQUIPEMENT À CYCLE FRIGORIFIQUE

Publication
EP 3819555 A4 20210721 (EN)

Application
EP 18925288 A 20180705

Priority
JP 2018025506 W 20180705

Abstract (en)
[origin: EP3819555A1] An air conditioner (1) includes a refrigerant circuit in which a compressor (10), an outdoor heat exchanger (30), an expansion valve (40), and an indoor heat exchanger (50) are connected in a loop by refrigerant pipes. During cooling operation, the outdoor heat exchanger (30) and the indoor heat exchanger (50) function respectively as a condenser and an evaporator. The outdoor heat exchanger (30) includes a main heat exchanger (32), a subcooling heat exchanger (34), and a bypass circuit. The subcooling heat exchanger (34) is configured to allow refrigerant from the main heat exchanger (32) to flow through the subcooling heat exchanger (34). The bypass circuit is configured to cause the refrigerant to make a detour from the subcooling heat exchanger (34) to an exit side of the outdoor heat exchanger (30).

IPC 8 full level
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Citation (search report)

- [XYI] JP 2009041829 A 20090226 - PANASONIC CORP
- [Y] JP 2010048473 A 20100304 - SHARP KK
- [X] JP S5860168 U 19830422
- [Y] JP H07280362 A 19951027 - NIPPON DENSO CO
- [Y] JP S6023673 U 19850218
- See references of WO 2020008590A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3819555 A1 20210512; **EP 3819555 A4 20210721**; JP 6964776 B2 20211110; JP WO2020008590 A1 20210408; WO 2020008590 A1 20200109

DOCDB simple family (application)
EP 18925288 A 20180705; JP 2018025506 W 20180705; JP 2020528625 A 20180705